



EXPLANATION

	MW-PA3		SEALED MONITORING WELL LOCATION
	MW-2		MONITORING WELL LOCATION
	PROPERTY MONUMENT		FACILITY BUILDING OR STRUCTURE
	EXISTING RAILROAD TRACK		APPROXIMATE WETLAND PERIMETER
	APPROXIMATE LIMITS OF VP7530 SITE		APPROXIMATE LIMITS OF VP7531 SITE
	APPROXIMATE EXTENT OF REFUSE UNIT		ACTUAL BERM CONSTRUCTION AREA
	ACTUAL LIMITS OF RA EXCAVATION		ACTUAL UTILITY CORRIDOR
	CONSTRUCTION CROSS-SECTION ORIENTATION		APPROXIMATE PACM LOCATION
	COVER-3		BERM COVER MATERIAL SAMPLE LOCATION
	BERM-2		BERM CORE MATERIAL SAMPLE LOCATION

NOTES:

1. MONITORING WELLS MW-7 AND MW-8 WERE INSTALLED BY THE MPCA.
2. MONITORING WELLS MW-3, MW-25, MW-PA1 AND MW-PA2 WERE SEALED PRIOR TO RA ACTIVITIES.



**CANADIAN
PACIFIC
RAILWAY**

CANADIAN PACIFIC RAILWAY SITE VP7530 CPR50-02612-800				ACTUAL LIMITS-OF-EXCAVATION	
CURRENT DATE	01-20-00	CADD FILE	2612c01s	FIGURE 4-2	

4.4 Utility Trench Excavation and Material Management

In addition to conducting RA excavation activities, CPR completed a utility trench excavation along the northern portion of the Site to facilitate planned construction activities associated with the railroad expansion. The utility trench is located outside the horizontal limits of refuse materials associated with the former Pigs Eye Dump. The utility trench was excavated to a depth of 10 feet and was approximately 900 feet in length. The utility trench location is shown in Figure 4-2. A materials management processes flow diagram for materials excavated from the utility trench is provided in Figure 4-4. The utility trench construction detail is shown in Figure 4-5.

4.4.1 Utility Trench Excavation

Approximately 6,500 CY of material was excavated from the utility trench using a track-mounted excavator. Utility trench material was inspected during excavation activities to determine the presence or absence of petroleum-impacts. Approximately 1,000 CY of material from the utility trench was transported to the berm construction area and stockpiled for use as berm cover material. Approximately 2,200 CY of utility trench material was placed in the berm core and approximately 3,300 CY of the excavated material was determined to be petroleum-impacted.

The utility trench excavation was not monitored for PACM by IHSC and Mavo because the location of the trench is north of the area where Pigs Eye Dump materials were known to exist. Breathing zone monitoring, with a photoionization detector (PID), was conducted during the utility trench excavation.

4.4.2 Railroad Tie Management

Large volumes of railroad ties were encountered at discrete areas near the eastern end of the utility trench excavation. These railroad ties were segregated from soil materials and stockpiled at CPR's designated waste railroad tie storage area prior to their management. Approximately 100 CY of railroad ties were managed in a manner consistent with CPR's routine waste tie management program and were transported to Rail Systems, Inc. of LaCrosse, Wisconsin where they will be chipped and burned as a fuel source.